

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A device for determining a value that is representative of accelerations in at least two mutually perpendicular directions, the device comprising a sensor system including at least two accelerometers with which acceleration in the mutually perpendicular directions is convertible into electric signals while the value is determinable by signal processing means from an electric signal formed from the electric signals, wherein prior to the signal processing means electric signals from the at least two accelerometers are addable together by an adding element to form the electric signal, wherein outputs of the at least two accelerometers are directly connected to the adding element to form the electric signal for processing by the signal processing means.

2. (Previously Presented) The device as claimed in claim 1, wherein in the adding element connections conducting the electric signals are arranged in parallel.

3. (Previously Presented) The device as claimed in claim 1, wherein the sensor system comprises at least a sensor which comprises a flexible strip made of piezoelectric material.

4. (Previously Presented) The device as claimed in claim 1, wherein the signal processing means comprise a signal amplifier, a bandpass filter and a processor.

5. (Previously Presented) An ergometer for measuring a value that is representative of a physical effort of an individual, the ergometer comprising a device that includes a sensor system having at least two accelerometers with which acceleration in mutually perpendicular directions can be converted into electric signals, while the value can be determined by signal processing means from an electric signal formed from the electric signals, wherein prior to the signal processing means the electric signals can be added

together by an adding element to form an electric signal, wherein outputs of the at least two accelerometers are directly connected to the adding element to form the electric signal for processing by the signal processing means.

6. (Previously Presented) The ergometer as claimed in claim 5, wherein in the adding element connections conducting the electric signals are arranged in parallel.

7. (Previously Presented) The ergometer as claimed in claim 5, wherein the ergometer comprises a database in which the value is correlated to a nutritional value.

8. (Previously Presented) The ergometer as claimed in claim 7, wherein the ergometer comprises a memory in which energy values can be stored over a certain period of time.

9. (Previously Presented) The ergometer as claimed in claim 7, wherein the ergometer comprises a screen on which the instantaneous effort and/or average effort can be displayed in energy values over

a certain period.

10. (Previously Presented) The ergometer as claimed in claim 5, wherein the ergometer comprises a coupling to which a computer can be connected, for transferring stored data from the ergometer to the computer.

11. (Previously Presented) The ergometer as claimed in claim 5, wherein the sensor system comprises at least a sensor that includes a flexible strip made of piezoelectric material.

12. (Previously Presented) The ergometer as claimed in claim 5, wherein the signal processing means comprise a signal amplifier, a bandpass filter and a processor.

13. (Previously Presented) The device of claim 1, wherein the electric signals added by the adding element are output currents of the at least two accelerometers added to from a total current for processing by the signal processing means.

14. (Previously Presented) The ergometer of claim 5, wherein the electric signals added by the adding element are output currents of the at least two accelerometers added to from a total current for processing by the signal processing means.

15. (Previously Presented) A device for determining a value that is representative of accelerations in at least two mutually perpendicular directions, the device comprising:

a sensor system including at least two accelerometers for providing output currents;

an adder directly connected to the at least two accelerometers for directly receiving the output currents and forming a total current; and

a processor configured to receive the total current for processing.